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Vol V of V
Part 2 of 2

AIR FORCE SITE CHARACTERIZATION AND ANALYSIS PENETROMETER SYSTEM (AFSCAPS): LASER-INDUCED FLUORESCENCE CONE PENETROMETER - ANALYTICAL TESTING DATA SHEETS (VOL V OF V - PART 2 OF 2)

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December 1994

Final Technical Report for Period March 1992 - November 1992

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ARMSTRONG LABORATORY

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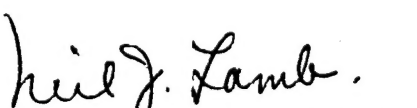

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A prototype Laser-Induced Fluorescence-Electric Cone Penetrometer Test (LIF-CPT) system was demonstrated at Tinker Air Force Base (Tinker AFB), Oklahoma as an innovative technology for delineating soil contamination resulting from fuel spills. Applied Research Associates, Inc. (ARA) and the North Dakota State University (NDSU) conducted the development program for the Air Force using LIF-CPT components developed within the Triservice Site Characterization and Analysis Penetrometer System (SCAPS) effort. Major components of the system consisted of ARA's cone penetrometer system coupled with NDSU's tunable laser fluorimeter. To enable rapid, efficient and minimally invasive site characterization, the LIF-CPT probe data output was linked to ARA's real-time analysis system with three-dimensional modeling and scientific visualization capabilities. Field testing at Tinker AFB was conducted to evaluate the LIF-CPT probe. During the testing program, 112 soundings at eight contaminated sites were conducted. At select locations, soil and water samples were obtained with CPT or drilling technologies, and tested using analytical procedures to confirm the presence of fuel contamination.

This volume documents the analytical testing results from the off-site laboratory used during the demonstration program.

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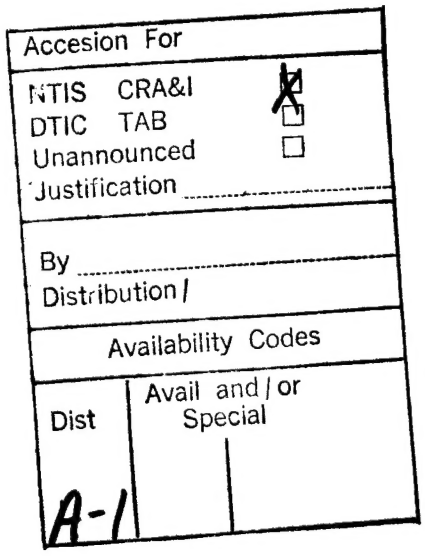
APPENDIX I

ANALYTICAL RESULTS FROM SOIL SAMPLES FROM BLDG 3001 OUTFALL-EAST SOLDIER CREEK



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11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OSC-B01-SS1 @16'
Collected By: JPJ
Date & Time Taken: 09/25/92 1750
Other Data: AFSCAPS Job #5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 221835 **Received:** 09/28/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Phenols	ND	mg/kg	1500 10/05/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1730 10/02/92		EPA Method 420.1	KC
Total Arsenic	ND	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	32	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	ND	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	5.6	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1400 10/02/92	.05	EPA Method 7470	SY
Total Nickel	3.3	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	2	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	4.1	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		0845 10/02/92		EPA Method 7471	JHL

Quality Assurance for the SET with Sample 221835

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
				Phenols					
	Blank	<.02	mg/l				1500	10/05/92	WMB
	Standard	.050	mg/l	.050		100	1500	10/05/92	WMB
222287	Duplicate	.02	mg/l	.02		100	1500	10/05/92	WMB
				Total Arsenic					
	Blank	<.1	mg/l				1136	10/15/92	RJC

Continued

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	.99	mg/l	1.0		101	1136	10/15/92	RJC
	Standard	2.0	mg/l	2.0		100	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.7	mg/l	.6		115	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	1	mg/kg	1		100	1136	10/15/92	RJC
221855	Duplicate	5	mg/kg	3		150	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	5		100	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC

Total Barium

	Blank	.02	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	5.1	mg/l	5.0		102	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	10	mg/l	10		100	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
221715	Duplicate	580	mg/kg	560		104	1136	10/15/92	RJC
221855	Duplicate	200	mg/kg	180		111	1136	10/15/92	RJC
221864	Duplicate	22	mg/kg	20		110	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	110	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	98	1136	10/15/92	RJC

Total Cadmium

	Blank	<.01	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	2.6	mg/l	2.5		104	1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	.54	mg/l	.50		108	1136	10/15/92	RJC
	Standard	.52	mg/l	.50		104	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	3	mg/kg	3		100	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC

Continued

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221864	Duplicate	3.3	mg/kg	3.0		110	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	96	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	89	1136	10/15/92	RJC
221715	Spike		mg/l		2.0	104	1136	10/15/92	RJC
				Total Chromium					
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	5.3	mg/l	5.0		106	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	.11	mg/l	.10		110	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	.02	mg/l	.02		100	1136	10/15/92	RJC
221715	Duplicate	11	mg/kg	15		131	1136	10/15/92	RJC
221855	Duplicate	8	mg/kg	7		113	1136	10/15/92	RJC
221864	Duplicate	14	mg/kg	12		115	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	99	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	94	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	92	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	92	1136	10/15/92	RJC
				Total Mercury					
	Blank	.001	mg/l				1400	10/02/92	SY
	Standard	.026	mg/l	.025		104	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.009	mg/l	.010		111	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
220412	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220803	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220412	Spike		mg/l		.010	64	1400	10/02/92	SY
220803	Spike		mg/l		.010	99	1400	10/02/92	SY
				Total Nickel					
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Standard	.40	mg/l	.40		100	1244	10/14/92	RJC
	Standard	2.1	mg/l	2.0		105	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.0	mg/l	1.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
	Standard	5.5	mg/l	5.0		110	1244	10/14/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1244	10/14/92	RJC

Continued

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221835 Continued

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221715	Duplicate	8.4	mg/kg	9.1		108	1244	10/14/92	RJC
221855	Duplicate	4.6	mg/kg	4.0		114	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	99	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	88	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	92	1244	10/14/92	RJC
				Total Lead					
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	5.2	mg/l	5.0		104	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.62	mg/l	.60		103	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	95	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	90	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC
				Total Zinc					
	Blank	<.01	mg/l				1244	10/14/92	RJC
	Blank	.02	mg/l				1244	10/14/92	RJC
	Standard	.21	mg/l	.20		105	1244	10/14/92	RJC
	Standard	2.0	mg/l	2.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.1	mg/l	1.0		110	1244	10/14/92	RJC
	Standard	5.3	mg/l	5.0		106	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
222319	Duplicate	.80	mg/l	.77		104	1244	10/14/92	RJC
221715	Duplicate	14	mg/kg	16		113	1244	10/14/92	RJC
221855	Duplicate	7.3	mg/kg	5.9		121	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	95	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	93	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	95	1244	10/14/92	RJC

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OSC-B02-SS1 @11'
Collected By: JPJ
Date & Time Taken: 09/25/92 1800
Other Data: AFSCAPS Job #5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 221836 **Received:** 09/28/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Phenols	ND	mg/kg	1500 10/05/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/02/92		EPA Method 420.1	KC
Total Arsenic	4	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	170	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	5	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	21	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1400 10/02/92	.05	EPA Method 7470	SY
Total Nickel	14	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	5	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	21	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		0845 10/02/92		EPA Method 7471	JHL

Quality Assurance for the SET with Sample 221836

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
				Phenols					
	Blank	<.02	mg/l				1500	10/05/92	WMB
	Standard	.050	mg/l	.050		100	1500	10/05/92	WMB
222287	Duplicate	.02	mg/l	.02		100	1500	10/05/92	WMB
				Total Arsenic					
	Blank	<.1	mg/l				1136	10/15/92	RJC

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	.99	mg/l	1.0		101	1136	10/15/92	RJC
	Standard	2.0	mg/l	2.0		100	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.7	mg/l	.6		115	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	1	mg/kg	1		100	1136	10/15/92	RJC
221855	Duplicate	5	mg/kg	3		150	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	5		100	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC
				Total Barium					
	Blank	.02	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	5.1	mg/l	5.0		102	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	10	mg/l	10		100	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
221715	Duplicate	580	mg/kg	560		104	1136	10/15/92	RJC
221855	Duplicate	200	mg/kg	180		111	1136	10/15/92	RJC
221864	Duplicate	22	mg/kg	20		110	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	110	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	98	1136	10/15/92	RJC
				Total Cadmium					
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	2.6	mg/l	2.5		104	1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	.54	mg/l	.50		108	1136	10/15/92	RJC
	Standard	.52	mg/l	.50		104	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	3	mg/kg	3		100	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC

Continued

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914
Analytical Chemistry • Utility Operations

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221836 Continued

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221864	Duplicate	3.3	mg/kg	3.0		110	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	96	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	89	1136	10/15/92	RJC
221715	Spike		mg/l		2.0	104	1136	10/15/92	RJC
				Total Chromium					
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	5.3	mg/l	5.0		106	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	.11	mg/l	.10		110	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	.02	mg/l	.02		100	1136	10/15/92	RJC
221715	Duplicate	11	mg/kg	15		131	1136	10/15/92	RJC
221855	Duplicate	8	mg/kg	7		113	1136	10/15/92	RJC
221864	Duplicate	14	mg/kg	12		115	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	99	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	94	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	92	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	92	1136	10/15/92	RJC
				Total Mercury					
	Blank	.001	mg/l				1400	10/02/92	SY
	Standard	.026	mg/l	.025		104	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.009	mg/l	.010		111	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
220412	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220803	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220412	Spike		mg/l		.010	64	1400	10/02/92	SY
220803	Spike		mg/l		.010	99	1400	10/02/92	SY
				Total Nickel					
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Standard	.40	mg/l	.40		100	1244	10/14/92	RJC
	Standard	2.1	mg/l	2.0		105	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.0	mg/l	1.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
	Standard	5.5	mg/l	5.0		110	1244	10/14/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1244	10/14/92	RJC

Continued

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Analytical Chemistry • Utility Operations

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221715	Duplicate	8.4	mg/kg	9.1		108	1244	10/14/92	RJC
221855	Duplicate	4.6	mg/kg	4.0		114	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	99	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	88	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	92	1244	10/14/92	RJC
			Total Lead						
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	5.2	mg/l	5.0		104	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.62	mg/l	.60		103	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	95	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	90	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC
			Total Zinc						
	Blank	<.01	mg/l				1244	10/14/92	RJC
	Blank	.02	mg/l				1244	10/14/92	RJC
	Standard	.21	mg/l	.20		105	1244	10/14/92	RJC
	Standard	2.0	mg/l	2.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.1	mg/l	1.0		110	1244	10/14/92	RJC
	Standard	5.3	mg/l	5.0		106	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
222319	Duplicate	.80	mg/l	.77		104	1244	10/14/92	RJC
221715	Duplicate	14	mg/kg	16		113	1244	10/14/92	RJC
221855	Duplicate	7.3	mg/kg	5.9		121	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	95	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	93	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	95	1244	10/14/92	RJC

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OSC-G01 0.1'-0.5' Outfall
Collected By: JPJ
Date & Time Taken: 09/26/92 1200
Other Data: AFSCAPS Job #5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 221837 **Received:** 09/28/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Phenols	ND	mg/kg	1500 10/05/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/02/92		EPA Method 420.1	KC
Total Arsenic	2	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	500	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	390	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	800	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	.4	mg/kg	1400 10/02/92	.05	EPA Method 7470	SY
Total Nickel	300	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	320	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	340	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		0845 10/02/92		EPA Method 7471	JHL

Quality Assurance for the SET with Sample 221837

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
				Phenols					
	Blank	<.02	mg/l				1500	10/05/92	WMB
	Standard	.050	mg/l	.050		100	1500	10/05/92	WMB
222287	Duplicate	.02	mg/l	.02		100	1500	10/05/92	WMB
				Total Arsenic					
	Blank	<.1	mg/l				1136	10/15/92	RJC

Continued

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221837 Continued

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	.99	mg/l	1.0		101	1136	10/15/92	RJC
	Standard	2.0	mg/l	2.0		100	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.7	mg/l	.6		115	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	1	mg/kg	1		100	1136	10/15/92	RJC
221855	Duplicate	5	mg/kg	3		150	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	5		100	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	109	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC

Total Barium

	Blank	.02	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	5.1	mg/l	5.0		102	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	10	mg/l	10		100	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
221715	Duplicate	580	mg/kg	560		104	1136	10/15/92	RJC
221855	Duplicate	200	mg/kg	180		111	1136	10/15/92	RJC
221864	Duplicate	22	mg/kg	20		110	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	110	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	98	1136	10/15/92	RJC

Total Cadmium

	Blank	<.01	mg/l				1136	10/15/92	RJC
	Blank	<.01	mg/l				1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	2.6	mg/l	2.5		104	1136	10/15/92	RJC
	Standard	.53	mg/l	.50		106	1136	10/15/92	RJC
	Standard	1.7	mg/l	2.0		116	1136	10/15/92	RJC
	Standard	.54	mg/l	.50		108	1136	10/15/92	RJC
	Standard	.52	mg/l	.50		104	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	3	mg/kg	3		100	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC

Continued

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Analytical Chemistry • Utility Operations

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221864	Duplicate	3.3	mg/kg	3.0		110	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	96	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	91	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	89	1136	10/15/92	RJC
221715	Spike		mg/l		2.0	104	1136	10/15/92	RJC
				Total Chromium					
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Blank	<.02	mg/l				1136	10/15/92	RJC
	Standard	2.2	mg/l	2.0		110	1136	10/15/92	RJC
	Standard	5.3	mg/l	5.0		106	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	.11	mg/l	.10		110	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	.02	mg/l	.02		100	1136	10/15/92	RJC
221715	Duplicate	11	mg/kg	15		131	1136	10/15/92	RJC
221855	Duplicate	8	mg/kg	7		113	1136	10/15/92	RJC
221864	Duplicate	14	mg/kg	12		115	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	99	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	94	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	92	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	92	1136	10/15/92	RJC
				Total Mercury					
	Blank	.001	mg/l				1400	10/02/92	SY
	Standard	.026	mg/l	.025		104	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
	Standard	.009	mg/l	.010		111	1400	10/02/92	SY
	Standard	.010	mg/l	.010		100	1400	10/02/92	SY
220412	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220803	Duplicate	ND	mg/kg	ND		100	1400	10/02/92	SY
220412	Spike		mg/l		.010	64	1400	10/02/92	SY
220803	Spike		mg/l		.010	99	1400	10/02/92	SY
				Total Nickel					
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Blank	<.05	mg/l				1244	10/14/92	RJC
	Standard	.40	mg/l	.40		100	1244	10/14/92	RJC
	Standard	2.1	mg/l	2.0		105	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.0	mg/l	1.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
	Standard	5.5	mg/l	5.0		110	1244	10/14/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1244	10/14/92	RJC

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221837 Continued

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
221715	Duplicate	8.4	mg/kg	9.1		108	1244	10/14/92	RJC
221855	Duplicate	4.6	mg/kg	4.0		114	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	99	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	88	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	92	1244	10/14/92	RJC
				Total Lead					
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Blank	<.1	mg/l				1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
	Standard	2.1	mg/l	2.0		105	1136	10/15/92	RJC
	Standard	5.2	mg/l	5.0		104	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	1.8	mg/l	2.0		111	1136	10/15/92	RJC
	Standard	1.1	mg/l	1.0		110	1136	10/15/92	RJC
	Standard	.62	mg/l	.60		103	1136	10/15/92	RJC
	Standard	1.0	mg/l	1.0		100	1136	10/15/92	RJC
222319	Duplicate	ND	mg/l	ND		100	1136	10/15/92	RJC
221715	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
221855	Duplicate	2	mg/kg	2		100	1136	10/15/92	RJC
221864	Duplicate	5	mg/kg	4		122	1136	10/15/92	RJC
222319	Spike		mg/l		2.0	95	1136	10/15/92	RJC
221855	Spike		mg/l		2.0	90	1136	10/15/92	RJC
221864	Spike		mg/l		2.0	93	1136	10/15/92	RJC
221715	Spike		mg/l		5.0	89	1136	10/15/92	RJC
				Total Zinc					
	Blank	<.01	mg/l				1244	10/14/92	RJC
	Blank	.02	mg/l				1244	10/14/92	RJC
	Standard	.21	mg/l	.20		105	1244	10/14/92	RJC
	Standard	2.0	mg/l	2.0		100	1244	10/14/92	RJC
	Standard	5.2	mg/l	5.0		104	1244	10/14/92	RJC
	Standard	1.8	mg/l	2.0		111	1244	10/14/92	RJC
	Standard	1.1	mg/l	1.0		110	1244	10/14/92	RJC
	Standard	5.3	mg/l	5.0		106	1244	10/14/92	RJC
	Standard	10	mg/l	10		100	1244	10/14/92	RJC
222319	Duplicate	.80	mg/l	.77		104	1244	10/14/92	RJC
221715	Duplicate	14	mg/kg	16		113	1244	10/14/92	RJC
221855	Duplicate	7.3	mg/kg	5.9		121	1244	10/14/92	RJC
222319	Spike		mg/l		2.0	95	1244	10/14/92	RJC
221715	Spike		mg/l		2.0	93	1244	10/14/92	RJC
221855	Spike		mg/l		2.0	95	1244	10/14/92	RJC

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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APPENDIX J

ANALYTICAL RESULTS FROM SOIL SAMPLES FROM LANDFILL NO. 2

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-05-SS1/SS2 5-8.6' Comp
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222693 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1550 10/13/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1400 10/08/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/13/92		EPA Method 420.1	CRH
Total Arsenic	11	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	790	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	77	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	73	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	.09	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	71	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	1400	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	1900	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1134 11/04/92	100	EPA Method 8240	PM

Continued

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222693 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	1134 11/04/92	100	EPA Method 8240	PM
Aldrin	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	GO
Anthracene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM

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222693 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chloromethane	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
2-Chloronaphthalene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1341 11/03/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	1134 11/04/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM

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222693 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Ethyl benzene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Fluoranthene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM

Continued

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222693 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Trichlorofluoromethane	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	1134 11/04/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	1341 11/03/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	1134 11/04/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	160	mg/kg	1500 10/08/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-06-SS1/SS2 7.5-11.1 Comp
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222691 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Methylnaphthalene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Total Sonic Extraction	30->1	g->ml	1514 10/13/92		EPA Method 3550	GE
Hydrocarbon Sonication Extract.	Completed		1400 10/08/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/09/92		EPA Method 420.1	WKC
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	300	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	13	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	2.2	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	.09	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	71	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	580	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	1000	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Acenaphthylene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO

Continued

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11/05/92

222691 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/kg	0634 10/31/92	100	EPA Method 8240	PM
Acrylonitrile	ND	ug/kg	0634 10/31/92	100	EPA Method 8240	PM
Aldrin	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Anthracene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzo(a)anthracene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzo(a)pyrene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzo(b)fluoranthene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzo(ghi)perylene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzo(k)fluoranthene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroethyl)ether	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroethoxy)methane	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroisopropyl)ether	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
4-Bromophenyl phenyl ether	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Bromoform	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Benzyl butyl phthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Carbon Tetrachloride	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM

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11/05/92

222691 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chloroform	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
2-Chloronaphthalene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Chrysene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Dibenzo(a,h)anthracene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Dibromochloromethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
1,2-Dichlorobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
1,4-Dichlorobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
3,3'-Dichlorobenzidine	ND	ug/kg	1000 11/03/92	670	EPA Method 8270	GO
Bromodichloromethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	0634 10/31/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Dimethyl phthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Di-n-butylphthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Di-n-octylphthalate	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
2,4-Dinitrotoluene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
2,6-Dinitrotoluene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
1,2-DPH (as azobenzene)	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Ethyl benzene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Fluoranthene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Fluorene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Hexachlorobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Hexachlorobutadiene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Hexachlorocyclopentadiene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Hexachloroethane	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Isophorone	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Methylene Chloride	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Nitrobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
N-nitrosodimethylamine	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
N-Nitrosodi-n-propylamine	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
N-nitrosodiphenylamine	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Phenanthrene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
Pyrene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
1,1,2,2-Tetrachloroethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Toluene	53	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1000 11/03/92	330	EPA Method 8270	GO
1,1,1-Trichloroethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM

Continued

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222691 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Trichloroethene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	0634 10/31/92	5.0	EPA Method 8240	PM
Xylenes	ND	ug/kg	0634 10/31/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	430	mg/kg	1500 10/08/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-07-SS1/SS2 8-11.6' Comp
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222689 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1535 10/13/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1400 10/08/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/09/92		EPA Method 420.1	WKC
Total Arsenic	2.6	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	810	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	16	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	31	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	.2	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	34	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	300	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	280	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Anthracene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Benzidine	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
2-Chloronaphthalene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
1,3-Dichlorobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1328 11/04/92	670	EPA Method 8270	PM
Diethyl phthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM

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222689 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2,4-Dinitrotoluene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Fluoranthene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Naphthalene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
2-Methylnaphthalene	ND	ug/kg	1328 11/04/92	330	EPA Method 8270	PM
Total Petroleum Hydrocarbons	370	mg/kg	1500 10/08/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-10-SS2 6-7.6'
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222688 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1525 10/13/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1400 10/08/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1730 10/09/92		EPA Method 420.1	WKC
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	1200	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	7.7	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	25	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	21	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	72	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	67	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1910 11/03/92	100	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	1910 11/03/92	100	EPA Method 8240	PM
Anthracene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM

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Analytical Chemistry • Utility Operations

11/05/92

222688 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1337 11/05/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	1910 11/03/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM

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Analytical Chemistry • Utility Operations

11/05/92

222688 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	1910 11/03/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	1337 11/05/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	1910 11/03/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	140	mg/kg	1500 10/08/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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APPENDIX K

ANALYTICAL RESULTS FROM WATER SAMPLES FROM LANDFILL NO. 2

ANA-LAB CORP.
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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-PZA L2-11
Collected By: JPJ
Date & Time Taken: 10/06/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222872 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	1042 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1042 10/29/92	100	EPA Method 8240	GO
Benzene	168	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO

Continued

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Analytical Chemistry • Utility Operations

11/05/92

222872 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	1042 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Toluene	27	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1042 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1042 10/29/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-PZB L2-11-6
Collected By: JPJ
Date & Time Taken: 10/06/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222870 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/l	0934 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	0934 10/29/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
trans-1,2-Dichloroethene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO

Continued

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11/05/92 222870 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Dichlorodiflouromethane	ND	ug/l	0934 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	0934 10/29/92	5.0	EPA Method 8240	GO
Xylenes	ND	ug/l	0934 10/29/92	10	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-PZC LZ-11-9
Collected By: JPJ
Date & Time Taken: 10/06/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222868 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	2027 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	2027 10/29/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO

Continued

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11/05/92

222868 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	2027 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	2027 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	2027 10/29/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-PZD 12-11-12
Collected By: JPJ
Date & Time Taken: 10/06/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222869 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/l	0901 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	0901 10/29/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
trans-1,2-Dichloroethene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO

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11/05/92

222869 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Dichlorodiflouromethane	ND	ug/l	0901 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	0901 10/29/92	5.0	EPA Method 8240	GO
Xylenes	ND	ug/l	0901 10/29/92	10	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF2-PZE LZ-11-8
Collected By: JPJ
Date & Time Taken: 10/06/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222871 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	1008 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1008 10/29/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO

Continued

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11/05/92

222871 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	1008 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1008 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1008 10/29/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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APPENDIX L

ANALYTICAL RESULTS FROM SOIL SAMPLES FROM LANDFILL NO. 4

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-05-SS1 3'-4.6'
Collected By: JPJ
Date & Time Taken: 10/01/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222860 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->8	g->ml	1350 10/21/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1700 10/12/92		EPA Method 3550 *MOD	TEO
Phenols	ND	mg/kg	1650 10/15/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/13/92		EPA Method 420.1	CRH
Total Arsenic	72	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	360	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	47	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	57	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	.2	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	42	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	1400	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	310	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Acrolein	ND	ug/kg	2017 11/03/92	100	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	2017 11/03/92	100	EPA Method 8240	PM
Anthracene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Bromoform	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Chrysene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1431 11/04/92	5300	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	2017 11/03/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM

Continued

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Fluorene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Isophorone	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Pyrene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	2017 11/03/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	1431 11/04/92	2600	EPA Method 8270	PM
Xylenes	ND	ug/kg	2017 11/03/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	8000	mg/kg	0900 10/13/92	100	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-05-SS2 6'-7.6'
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data:
1 -- Unpreserved Plastic/Glass (OO)

Lab Sample Number: 222861 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	217->1	ml->ml	1404 10/22/92		EPA Method 3510	GE
TCLP Liq-Liq Extr. W/Hex Exch.	217->2	ml->ml	1435 10/22/92		EPA Method 3510	DDM
TCLP ZHE Volatile Extraction	79.0% Sol	Completed.	1700 10/17/92		EPA Method 1311	LM
TCLP Extraction	Aque/Sol/Ext#1		1533 10/20/92		EPA Method 1311	RJH
Esterification of Sample Extract	Completed.		1400 11/02/92		EPA Method 8150	KB
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Gamma-BHC (Lindane) (.4)	ND	mg/l	1240 11/02/92	0.00036	EPA Method 8080-TCLP	KB
TCLP Carbon Tetrachloride (.5)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Chlordane (Reg. Limit 0.03)	ND	mg/l	1240 11/02/92	0.0013	EPA Method 8080-TCLP	KB
TCLP Chlorobenzene (Limit 100)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	.94	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	.31	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Endrin (Reg. Limit 0.02)	ND	mg/l	1240 11/02/92	0.00055	EPA Method 8080-TCLP	KB

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222861 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Heptachlor (Limit .008)	ND	mg/l	1240 11/02/92	0.00027	EPA Method 8080-TCLP	KB
TCLP Heptachlor Epoxide (.008)	ND	mg/l	1240 11/02/92	0.0075	EPA Method 8080-TCLP	KB
TCLP Hexachlorobenzene (.13)	ND	mg/l	0340 11/05/92	0.23	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Tetrachloroethylene (.7)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Toxaphene (Reg. Limit 0.5)	ND	mg/l	1240 11/02/92	0.022	EPA Method 8080-TCLP	KB
TCLP Trichloroethylene (.5)	ND	mg/l	0229 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	0229 11/04/92	0.1	EPA Method 8240-TCLP	PM
TCLP 2,4 D (Reg. Limit 10)	ND	mg/l	1530 11/02/92	0.11	EPA Method 8150-TCLP	KB
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP 2,4,5-TP (Silvex) (RL 1)	ND	mg/l	1530 11/02/92	0.015	EPA Method 8150-TCLP	KB
TCLP Cresol (Reg. Limit 1)	1.1	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	.49	mg/l	0229 11/04/92	0.5	EPA Method 8240-TCLP	PM
TCLP Methoxychlor (RL 10)	ND	mg/l	1240 11/02/92	0.016	EPA Method 8080-TCLP	KB
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	0340 11/05/92	0.045	EPA Method 8270-TCLP	PM
Metals Digestion TCLP 3010	Digested 50/10	a/s	2200 10/29/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested 50/10	a/s	0800 10/27/92		EPA Method 7470	BG
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1104 11/06/92	.01	EPA Method 6010	LW
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1104 11/06/92	.2	EPA Method 6010	LW
TCLP Barium (Reg. Limit 100.0)	ND	mg/l	1104 11/06/92	1.0	EPA Method 6010	LW

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Cadmium (Reg. Limit 1.0)	.14	mg/l	1104 11/06/92	.01	EPA Method 6010	LW
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1104 11/06/92	.02	EPA Method 6010	LW
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	1430 10/28/92	.005	EPA Method 7470	LW
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1104 11/06/92	.1	EPA Method 6010	LW
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	1104 11/06/92	.2	EPA Method 6010	LW

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-06-SS1/SS2/SS3 2'-9.6'Comp
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222862 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1355 10/21/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1700 10/12/92		EPA Method 3550 *MOD	TEO
Phenols	ND	mg/kg	1650 10/15/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/13/92		EPA Method 420.1	CRH
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	380	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	17	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	48	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	.1	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	38	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	340	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	380	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1549 11/03/92	100	EPA Method 8240	GO

Continued

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11/05/92 222862 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	1549 11/03/92	100	EPA Method 8240	GO
Anthracene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Benzidine	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzo(a)anthracene	3400	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzo(a)pyrene	2200	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	830	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	1000	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO
4-Chlorophenyl phenyl ether	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Chlorobenzene	140	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO
Chloroform	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Chrysene	5800	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,3-Dichlorobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	0015 11/05/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
trans-1,2-Dichloroethene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/kg	1549 11/03/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Diethyl phthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Ethyl benzene	80	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO

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11/05/92 222862 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	930	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Naphthalene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Phenanthrene	2100	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Pyrene	2500	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,2,4-Trichlorobenzene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	1549 11/03/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
2-Methylnaphthalene	ND	ug/kg	0015 11/05/92	330	EPA Method 8270	PM
Xylenes	150	ug/kg	1549 11/03/92	5.0	EPA Method 8240	GO
Total Petroleum Hydrocarbons	11000	mg/kg	0900 10/13/92	100	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-06-SS4 13'-14.6'
Collected By: JPJ
Date & Time Taken: 10/09/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222863 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1811 10/21/92		EPA Method 3550	LM
Total Arsenic	ND	mg/kg	0938 11/05/92		EPA Method 6010	GDG
Total Barium	630	mg/kg	0938 11/05/92		EPA Method 6010	GDG
Total Cadmium	2.4	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	38	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	29	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	8.1	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	54	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acrolein	ND	ug/kg	1622 11/03/92	100	EPA Method 8240	PM
Acrylonitrile	ND	ug/kg	1622 11/03/92	100	EPA Method 8240	PM
Benzene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Bromoform	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM
Carbon Tetrachloride	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chlorobenzene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM
Dibromochloromethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Bromodichloromethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	1622 11/03/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Ethyl benzene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Methylene Chloride	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,1,1-Trichloroethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,3-Dichloropropene	ND	ug/kg	1622 11/03/92	5.0	EPA Method 8240	PM
Xylenes	ND	ug/kg	1622 11/03/92	10	EPA Method 8240	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-10-SS1 8'-9.6'
Collected By: JPJ
Date & Time Taken: 10/02/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222864 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1814 10/21/92		EPA Method 3550	LM
Hydrocarbon Sonication Extract.	Completed		1700 10/12/92		EPA Method 3550 *MOD	TEO
Phenols	ND	mg/kg	1650 10/15/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1630 10/14/92		EPA Method 420.1	CRH
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	640	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	25	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	200	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	41	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	23	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	40	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1655 11/03/92	100	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	1655 11/03/92	100	EPA Method 8240	PM
Anthracene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1127 11/04/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	1655 11/03/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	1655 11/03/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	1127 11/04/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	1655 11/03/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	54	mg/kg	0900 10/13/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

APPENDIX M

ANALYTICAL RESULTS FROM WATER SAMPLES FROM LANDFILL NO. 4

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-05-W1 @9'
Collected By: JPJ
Date & Time Taken: 10/01/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222867 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/l	1953 10/29/92	100	EPA Method 8240	PM
Acrylonitrile	ND	ug/l	1953 10/29/92	100	EPA Method 8240	PM
Benzene	110	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Bromoform	37	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
Carbon Tetrachloride	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
Chloroform	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
Dibromochloromethane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Bromodichloromethane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	17	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	21	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	220	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Dichlorodiflouromethane	ND	ug/l	1953 10/29/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Ethyl benzene	230	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Methylene Chloride	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,1,2,2-Tetrachloroethane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Tetrachloroethene	35	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Toluene	3400	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,1,1-Trichloroethane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Trichloroethene	200	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/l	1953 10/29/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/l	1953 10/29/92	5.0	EPA Method 8240	PM
Xylenes	570	ug/l	1953 10/29/92	10	EPA Method 8240	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-06-W1 @4'
Collected By: JPJ
Date & Time Taken: 10/01/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 1 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222865 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/l	1844 10/29/92	100	EPA Method 8240	PM
Acrylonitrile	ND	ug/l	1844 10/29/92	100	EPA Method 8240	PM
Benzene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Bromoform	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
Carbon Tetrachloride	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Chlorobenzene	50	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
Chloroform	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
Dibromochloromethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Bromodichloromethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Dichlorodiflouromethane	ND	ug/l	1844 10/29/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Ethyl benzene	110	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Methylene Chloride	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,1,2,2-Tetrachloroethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,1,1-Trichloroethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/l	1844 10/29/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/l	1844 10/29/92	5.0	EPA Method 8240	PM
Xylenes	170	ug/l	1844 10/29/92	10	EPA Method 8240	PM

I certify that the results were generated using the above specified methods.

C. H. Whiteside

C.H. Whiteside, Ph.D., President

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: LF4-06-W2 @15.5'
Collected By: JPJ
Date & Time Taken: 10/01/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222866 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrolein	ND	ug/l	1919 10/29/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1919 10/29/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Chlorobenzene	15	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
trans-1,2-Dichloroethene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Dichlorodiflouromethane	ND	ug/l	1919 10/29/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Ethyl benzene	160	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1919 10/29/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO
Xylenes	ND	ug/l	1919 10/29/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C. H. Whiteside

C.H. Whiteside, Ph.D., President

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APPENDIX N

ANALYTICAL RESULTS FROM SOIL SAMPLES FROM OFFBASE (BONNEWELL) AREA

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B01-SS1 6'-7'
Collected By: JPJ
Date & Time Taken: 09/28/92 1610
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222091 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1259 10/13/92		EPA Method 3550	DDM
Phenols	ND	mg/kg	1445 10/12/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/08/92		EPA Method 420.1	WKC
Total Arsenic	2	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	220	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	3	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	16	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	8.6	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	3	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	15	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Anthracene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzidine	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Benzo(a)anthracene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
2-Chloronaphthalene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
1,3-Dichlorobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	2229 11/02/92	670	EPA Method 8270	PM
Diethyl phthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2,6-Dinitrotoluene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Fluoranthene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Naphthalene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
1,2,4-Trichlorobenzene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM
2-Methylnaphthalene	ND	ug/kg	2229 11/02/92	330	EPA Method 8270	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B01-SS2 9'-10'
Collected By: JPJ
Date & Time Taken: 09/28/92 1630
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222092 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Methylnaphthalene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Total Sonic Extraction	30->1	g->ml	1323 10/13/92		EPA Method 3550	GE
Phenols	ND	mg/kg	1445 10/12/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2030 10/08/92		EPA Method 420.1	WKC
Total Arsenic	ND	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	1200	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	4	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	30	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	23	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	3	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	28	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Acenaphthylene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Aldrin	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Anthracene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzidine	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzo(a)anthracene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzo(a)pyrene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzo(b)fluoranthene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzo(ghi)perylene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzo(k)fluoranthene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroethyl)ether	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroethoxy)methane	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Bis(2-chloroisopropyl)ether	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
4-Bromophenyl phenyl ether	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
4-Chlorophenyl phenyl ether	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Benzyl butyl phthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
2-Chloronaphthalene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Chrysene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Dibenzo(a,h)anthracene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
1,3-Dichlorobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
1,2-Dichlorobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
1,4-Dichlorobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
3,3'-Dichlorobenzidine	ND	ug/kg	1435 11/03/92	670	EPA Method 8270	GO
Diethyl phthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Dimethyl phthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Di-n-butylphthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Di-n-octylphthalate	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
2,4-Dinitrotoluene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
2,6-Dinitrotoluene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
1,2-DPH (as azobenzene)	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Fluoranthene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Fluorene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Hexachlorobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Hexachlorobutadiene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Hexachlorocyclopentadiene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Hexachloroethane	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Isophorone	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Naphthalene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Nitrobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
N-nitrosodimethylamine	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
N-Nitrosodi-n-propylamine	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
N-nitrosodiphenylamine	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Phenanthrene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
Pyrene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO
1,2,4-Trichlorobenzene	ND	ug/kg	1435 11/03/92	330	EPA Method 8270	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B01-SS3 16'-17'
Collected By: JPJ
Date & Time Taken: 09/28/92 1640
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
1 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222093 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1344 10/13/92		EPA Method 3550	GE
Phenols	ND	mg/kg	1445 10/12/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/07/92		EPA Method 420.1	WKC
Total Arsenic	13	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	74	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	5	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	23	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	19	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	3	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	29	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	0058 10/31/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/kg	0058 10/31/92	100	EPA Method 8240	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Anthracene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Benzidine	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO
4-Chlorophenyl phenyl ether	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO
Chloroform	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO
2-Chloronaphthalene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chrysene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,3-Dichlorobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1233 11/04/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
trans-1,2-Dichloroethene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/kg	0058 10/31/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Diethyl phthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Fluoranthene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM

Continued

ANA-LAB CORP.
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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluorene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Naphthalene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,2,4-Trichlorobenzene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/kg	0058 10/31/92	10	EPA Method 8240	GO

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,3-Dichloropropene	ND	ug/kg	0058 10/31/92	5.0	EPA Method 8240	GO
2-Methylnaphthalene	ND	ug/kg	1233 11/04/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	0132 10/31/92	10	EPA Method 8240	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B01-SS4 21'-22'
Collected By: JPJ
Date & Time Taken: 09/28/92 1715
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222094 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1328 10/13/92		EPA Method 3550	GE
Phenols	ND	mg/kg	1445 10/12/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/07/92		EPA Method 420.1	WKC
Total Arsenic	1	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	16	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	1	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	8	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	5.8	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	ND	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	8.1	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Anthracene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzidine	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Benzo(a)anthracene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
2-Chloronaphthalene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
1,3-Dichlorobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	0059 11/05/92	670	EPA Method 8270	PM
Diethyl phthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2,6-Dinitrotoluene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Fluoranthene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Naphthalene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
1,2,4-Trichlorobenzene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM
2-Methylnaphthalene	ND	ug/kg	0059 11/05/92	330	EPA Method 8270	PM

I certify that the results were generated using the above specified methods.

C. H. Whiteside

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B02-SS2 11'-12'
Collected By: JPJ
Date & Time Taken: 09/28/92 1800
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222095 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1340 10/13/92		EPA Method 3550	GE
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		2100 10/07/92		EPA Method 420.1	WKC
Total Arsenic	3	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	290	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	5.3	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	19	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	14	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	6.4	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	21	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Anthracene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzidine	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Benzo(a)anthracene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
2-Chloronaphthalene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
1,3-Dichlorobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1631 11/03/92	670	EPA Method 8270	PM
Diethyl phthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM

Continued

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2,6-Dinitrotoluene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Fluoranthene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Naphthalene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM
2-Methylnaphthalene	ND	ug/kg	1631 11/03/92	330	EPA Method 8270	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-B02-SS4 22'-23'
Collected By: JPJ
Date & Time Taken: 09/28/92 1830
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
1 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222097 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1508 10/13/92		EPA Method 3550	GE
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1730 10/09/92		EPA Method 420.1	WKC
Total Arsenic	ND	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Barium	51	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Cadmium	3	mg/kg	1136 10/15/92	.1	EPA Method 6010	RJC
Total Chromium	12	mg/kg	1136 10/15/92	.2	EPA Method 6010	RJC
Total Mercury	ND	mg/kg	1200 11/05/92	.05	EPA Method 7470	LW
Total Nickel	10	mg/kg	1244 10/14/92	.6	EPA Method 6010	RJC
Total Lead	2	mg/kg	1136 10/15/92	1	EPA Method 6010	RJC
Total Zinc	13	mg/kg	1244 10/14/92	.1	EPA Method 6010	RJC
Metals Digestion - 3050 Fl	Digested 50/4		0730 10/08/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		2000 11/02/92		EPA Method 7471	KDC
Acenaphthene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1100 10/31/92	100	EPA Method 8240	WJP
Acrylonitrile	ND	ug/kg	1100 10/31/92	100	EPA Method 8240	WJP

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Anthracene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Benzidine	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Bromomethane	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP
4-Chlorophenyl phenyl ether	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Chlorobenzene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Chloroethane	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP
2-Chloroethylvinyl ether	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP
Chloroform	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Chloromethane	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP
2-Chloronaphthalene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM

Continued

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Chrysene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,3-Dichlorobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	0838 11/04/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,1-Dichloroethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,2-Dichloroethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,1-Dichloroethene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
trans-1,2-Dichloroethene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Dichlorodiflouromethane	ND	ug/kg	1100 10/31/92	1.0	EPA Method 8240	WJP
1,2-Dichloropropane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
cis-1,3-Dichloropropene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Diethyl phthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Fluoranthene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM

Continued

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluorene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Naphthalene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Tetrachloroethene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Toluene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,2,4-Trichlorobenzene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
1,1,2-Trichloroethane	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Trichloroethene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
Trichlorofluoromethane	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP
Vinyl Chloride	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,3-Dichloropropene	ND	ug/kg	1100 10/31/92	5.0	EPA Method 8240	WJP
2-Methylnaphthalene	ND	ug/kg	0838 11/04/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	1100 10/31/92	10	EPA Method 8240	WJP

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-03-SS1 5-6.7'
Collected By: JPJ
Date & Time Taken: 10/03/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222683 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1518 10/13/92		EPA Method 3550	GE
Hydrocarbon Sonication Extract.	Completed		1330 10/09/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1730 10/09/92		EPA Method 420.1	WKC
Total Arsenic	1	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	240	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	1.5	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	23	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	14	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	3.2	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	20	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4	A/B/S	0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	1726 10/31/92	100	EPA Method 8240	PM

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	1726 10/31/92	100	EPA Method 8240	PM
Anthracene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	2040 10/30/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	1726 10/31/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Toluene	34	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	1726 10/31/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	1726 10/31/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	2040 10/30/92	330	EPA Method 8270	PM
Xylenes	16	ug/kg	1726 10/31/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	56	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-04-SS1 4.0-5.6'
Collected By: JPJ
Date & Time Taken: 10/03/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222687 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1540 10/13/92		EPA Method 3550	DDM
Hydrocarbon Sonication Extract.	Completed		1330 10/09/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1800 10/13/92		EPA Method 420.1	CRH
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	130	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	.98	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	16	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	8.5	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	8.4	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	22	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4		0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Anthracene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Benzidine	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
2-Chloronaphthalene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
1,3-Dichlorobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	2127 11/02/92	670	EPA Method 8270	PM
Diethyl phthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM

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THE COMPLETE SERVICE LAB
2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914
Analytical Chemistry • Utility Operations

11/05/92 222687 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2,4-Dinitrotoluene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Fluoranthene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Naphthalene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
1,2,4-Trichlorobenzene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
2-Methylnaphthalene	ND	ug/kg	2127 11/02/92	330	EPA Method 8270	PM
Total Petroleum Hydrocarbons	19	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C. H. Whiteside

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: OFB-04-SS2 5.6-7.4'
Collected By: JPJ
Date & Time Taken: 10/03/92
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222686 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Total Sonic Extraction	30->1	g->ml	1458 10/13/92		EPA Method 3550	GE
Hydrocarbon Sonication Extract.	Completed		1330 10/09/92		EPA Method 3550 *MOD	JT
Phenols	ND	mg/kg	1700 10/14/92	5	EPA Method 420.1	WMB
Phenol Distillation	DISTILLED		1730 10/09/92		EPA Method 420.1	WKC
Total Arsenic	ND	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Barium	140	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Cadmium	1.6	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Total Chromium	16	mg/kg	0938 11/05/92	.2	EPA Method 6010	GDG
Total Mercury	ND	mg/kg	1330 10/15/92	.001	EPA Method 7470	LW
Total Nickel	7.4	mg/kg	0938 11/05/92	.6	EPA Method 6010	GDG
Total Lead	2.0	mg/kg	0938 11/05/92	1	EPA Method 6010	GDG
Total Zinc	12	mg/kg	0938 11/05/92	.1	EPA Method 6010	GDG
Metals Digestion - 3050 Fl	Digested 50/4	A/B/S	0830 10/26/92		EPA Method 3050 Fl	JHL
Metals Digestion - 7471	Digested 50/1		1600 10/14/92		EPA Method 7471	BWP
Acenaphthene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Acenaphthylene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Acrolein	ND	ug/kg	0601 10/31/92	100	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Acrylonitrile	ND	ug/kg	0601 10/31/92	100	EPA Method 8240	PM
Anthracene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Benzidine	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzo(a)anthracene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzo(a)pyrene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzo(b)fluoranthene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzo(ghi)perylene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzo(k)fluoranthene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethyl)ether	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroethoxy)methane	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Bis(2-chloroisopropyl)ether	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
4-Bromophenyl phenyl ether	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Bis(2-ethylhexyl)phthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Bromoform	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM
4-Chlorophenyl phenyl ether	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Benzyl butyl phthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Carbon Tetrachloride	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM
Chloroform	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
2-Chloronaphthalene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Chrysene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Dibenzo(a,h)anthracene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Dibromochloromethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,3-Dichlorobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
1,2-Dichlorobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
1,4-Dichlorobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
3,3'-Dichlorobenzidine	ND	ug/kg	1539 11/03/92	670	EPA Method 8270	PM
Bromodichloromethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
trans-1,2-Dichloroethene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/kg	0601 10/31/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Diethyl phthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Dimethyl phthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Di-n-butylphthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Di-n-octylphthalate	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
2,4-Dinitrotoluene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
2,6-Dinitrotoluene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
1,2-DPH (as azobenzene)	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Ethyl benzene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Fluoranthene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Fluorene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Hexachlorobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Hexachlorobutadiene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Hexachlorocyclopentadiene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Hexachloroethane	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Indeno(1,2,3-cd)pyrene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Isophorone	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Methylene Chloride	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Naphthalene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Nitrobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
N-nitrosodimethylamine	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
N-Nitrosodi-n-propylamine	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
N-nitrosodiphenylamine	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Phenanthrene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Pyrene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
1,1,2,2-Tetrachloroethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Toluene	17	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,2,4-Trichlorobenzene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
1,1,1-Trichloroethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Vinyl Chloride	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/kg	0601 10/31/92	5.0	EPA Method 8240	PM
2-Methylnaphthalene	ND	ug/kg	1539 11/03/92	330	EPA Method 8270	PM
Xylenes	ND	ug/kg	0601 10/31/92	10	EPA Method 8240	PM
Total Petroleum Hydrocarbons	29	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

APPENDIX O

TCLP ANALYSES OF COMPOSITED FROM SAMPLES AND FRAC TANK RINSATE

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Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: DSW-1 FPA Comp Dr 1,3,8
Collected By: JPJ
Date & Time Taken: 10/06/92 1718
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222697 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	1000->1	ml->ml	1250 11/02/92		EPA Method 3510	GE
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1500 10/14/92		EPA Method 1311	LM
TCLP Extraction	Solid/Ext#1		1625 10/20/92		EPA Method 1311	RJH
Hydrocarbon Sonication Extract.	Completed		1130 10/10/92		EPA Method 3550 *MOD	TEO
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorobenzene (.13)	ND	mg/l	1159 11/06/92	0.05	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Tetrachloroethylene (.7)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP Trichloroethylene (.5)	ND	mg/l	2121 11/02/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	2121 11/02/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP Cresol (Reg. Limit 1)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	ND	mg/l	2121 11/02/92	0.05	EPA Method 8240-TCLP	PM
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	1159 11/06/92	0.01	EPA Method 8270-TCLP	PM
Total Petroleum Hydrocarbons	860	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO
Metals Digestion TCLP 3010	Digested	a/b/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested	A/B/S	2200 10/23/92		EPA Method 7470	KDC
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	1.7	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	1515 11/06/92	.05	EPA Method 7470	RJC
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: DSW-2 WTP/OSC Comp Dr 1,5,6
Collected By: JPJ
Date & Time Taken: 10/06/92 1725
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222699 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	1000->1	ml->ml	1530 10/22/92		EPA Method 3510	GE
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1430 10/15/92		EPA Method 1311	LM
TCLP Extraction	Solid/Ext#1		1615 10/20/92		EPA Method 1311	RJH
Hydrocarbon Sonication Extract.	Completed		1130 10/10/92		EPA Method 3550 *MOD	TEO
TCLP Benzene (Reg. Limit 0.5)	.019	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorobenzene (.13)	ND	mg/l	2345 11/05/92	0.05	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM

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11/06/92

222699 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Tetrachloroethylene (.7)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Trichloroethylene (.5)	ND	mg/l	1802 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	1802 11/03/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Cresol (Reg. Limit 1)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	ND	mg/l	1802 11/03/92	0.05	EPA Method 8240-TCLP	PM
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	2345 11/05/92	0.01	EPA Method 8270-TCLP	PM
Total Petroleum Hydrocarbons	120	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO
Metals Digestion TCLP 3010	Digested	a/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested	A/S	2200 10/23/92		EPA Method 7470	KDC
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	5.0	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	.03	mg/l	1515 11/06/92	.001	EPA Method 7470	RJC
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: DSW-3 WTP/OSC Drum 5
Collected By: JPJ
Date & Time Taken: 10/06/92 1725
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222701 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	1000->1	ml->ml	1510 10/22/92		EPA Method 3510	GE
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1430 10/16/92		EPA Method 1311	LM
TCLP Extraction	Solid/Ext#1		1540 10/20/92		EPA Method 1311	RJH
Hydrocarbon Sonication Extract.	Completed		1130 10/10/92		EPA Method 3550 *MOD	TEO
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	.007	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorobenzene (.13)	ND	mg/l	2254 11/05/92	0.05	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM

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222701 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Tetrachloroethylene (.7)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP Trichloroethylene (.5)	ND	mg/l	2305 11/03/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	2305 11/03/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Cresol (Reg. Limit 1)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	ND	mg/l	2305 11/03/92	0.05	EPA Method 8240-TCLP	PM
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	2254 11/05/92	0.01	EPA Method 8270-TCLP	PM
Total Petroleum Hydrocarbons	83	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO
Metals Digestion TCLP 3010	Digested	a/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested	A/S	2200 10/23/92		EPA Method 7470	KDC
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	3.2	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG
TCLP Cadmium (Reg. Limit 1.0)	.01	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	1515 11/06/92	.001	EPA Method 7470	RJC
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: DSW-4 FTA Comp Dr 1,2
Collected By: JPJ
Date & Time Taken: 10/06/92 1730
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222702 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	1000->1	ml->ml	2112 10/23/92		EPA Method 3510	LM
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1430 10/16/92		EPA Method 1311	LM
TCLP Extraction	Solid/Ext#1		1525 10/21/92		EPA Method 1311	LD
Hydrocarbon Sonication Extract.	Completed		1130 10/10/92		EPA Method 3550 *MOD	TEO
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorobenzene (.13)	ND	mg/l	2154 11/05/92	0.05	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Tetrachloroethylene (.7)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Trichloroethylene (.5)	ND	mg/l	0121 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	0121 11/04/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Cresol (Reg. Limit 1)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	ND	mg/l	0121 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	2154 11/05/92	0.01	EPA Method 8270-TCLP	PM
Total Petroleum Hydrocarbons	1900	mg/kg	1200 10/10/92	100	EPA Method 418.1	TEO
Metals Digestion TCLP 3010	Digested	a/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested	A/S	2200 10/23/92		EPA Method 7470	KDC
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	2.5	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	1515 11/06/92	.001	EPA Method 7470	RJC
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/06/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: DSW-5 OFB Comp Dr 1,2
Collected By: JPJ
Date & Time Taken: 10/06/92 1735
Other Data: Tinker AFB, Job # 5735
Bottle Data: 1 -- Unpreserved Plastic/Glass (00)
Lab Sample Number: 222703 **Received:** 10/07/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	1000->1	ml->ml	1721 10/22/92		EPA Method 3510	LM
TCLP ZHE Volatile Extraction	100.0% Sol	Completed.	1700 10/17/92		EPA Method 1311	LM
TCLP Extraction	Solid/Ext#1		1515 10/21/92		EPA Method 1311	102
Hydrocarbon Sonication Extract.	Completed		1130 10/10/92		EPA Method 3550 *MOD	TEO
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Carbon Tetrachloride (.5)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlorobenzene (Limit 100)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorobenzene (.13)	ND	mg/l	0441 11/05/92	0.05	EPA Method 8270-TCLP	PM
TCLP Hexachlorobutadiene (.5)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Hexachlorethane (Limit 3)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Nitrobenzene (Limit 2)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Pentachlorophenol (100)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM

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11/06/92

222703 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Tetrachloroethylene (.7)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP Trichloroethylene (.5)	ND	mg/l	0013 11/04/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Vinyl Chloride (.2)	ND	mg/l	0013 11/04/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP Cresol (Reg. Limit 1)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
TCLP MEK (Reg. Limit 200)	ND	mg/l	0013 11/04/92	0.05	EPA Method 8240-TCLP	PM
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	0441 11/05/92	0.01	EPA Method 8270-TCLP	PM
Total Petroleum Hydrocarbons	24	mg/kg	1200 10/10/92	10	EPA Method 418.1	TEO
Metals Digestion TCLP 3010	Digested	a/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - TCLP 7470	Digested	A/S	2200 10/23/92		EPA Method 7470	KDC
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	3.8	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	.007	mg/l	1515 11/06/92	.001	EPA Method 7470	RJC
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: Frac Tank Decon Rinsate
Collected By: JPJ
Date & Time Taken: 10/07/92
Other Data: AFSCAPS Tinker AFB Job #5735
Bottle Data: 3 -- Unpreserved Plastic/Glass (OO)
Lab Sample Number: 222897 **Received:** 10/09/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Liquid-Liquid Extraction	337->1	ml->ml	1507 10/22/92		EPA Method 3510	DDM
TCLP Liq-Liq Extr. W/Hex Exch.	337->2	ml->ml	1440 10/22/92		EPA Method 3510	GE
TCLP ZHE Volatile Extraction	13.0% Sol	Completed.	1700 10/17/92		EPA Method 1311	LM
TCLP Extraction	Aqueous		1330 10/20/92		EPA Method 1311	RJH
Esterification of Sample Extract	Completed.		0900 10/27/92		EPA Method 8150	KB
Fax This Report AS Soon As DONE!	FAXED		06:3011/02/92			
TCLP Benzene (Reg. Limit 0.5)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP Gamma-BHC (Lindane) (.4)	ND	mg/l	1630 10/26/92	0.00024	EPA Method 8080-TCLP	KB
TCLP Carbon Tetrachloride (.5)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chlordane (Reg. Limit 0.03)	ND	mg/l	1630 10/26/92	0.00082	EPA Method 8080-TCLP	KB
TCLP Chlorobenzene (Limit 100)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP Chloroform (Reg. Limit 6.0)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,4 Dichlorobenzene: RL 7.5	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP 1,2-Dichloroethane (RL .5)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP 1,1-Dichloroethene (.7)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4-Dinitrotoluene (.13)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Endrin (Reg. Limit 0.02)	ND	mg/l	1630 10/26/92	0.00035	EPA Method 8080-TCLP	KB

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Heptachlor (Limit .008)	ND	mg/l	1630 10/26/92	0.00018	EPA Method 8080-TCLP	KB
TCLP Heptachlor Epoxide (.008)	ND	mg/l	1630 10/26/92	0.0049	EPA Method 8080-TCLP	KB
TCLP Hexachlorobenzene (.13)	ND	mg/l	1607 10/30/92	0.1	EPA Method 8270-TCLP	WJP
TCLP Hexachlorobutadiene (.5)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Hexachlorethane (Limit 3)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Nitrobenzene (Limit 2)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Pentachlorophenol (100)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Tetrachloroethylene (.7)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP Toxaphene (Reg. Limit 0.5)	ND	mg/l	1630 10/26/92	0.014	EPA Method 8080-TCLP	KB
TCLP Trichloroethylene (.5)	ND	mg/l	0725 10/30/92	0.005	EPA Method 8240-TCLP	PM
TCLP 2,4,6-Trichlorophenol (2)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP Vinyl Chloride (.2)	ND	mg/l	0725 10/30/92	0.01	EPA Method 8240-TCLP	PM
TCLP 2,4 D (Reg. Limit 10)	ND	mg/l	1430 10/27/92	0.071	EPA Method 8150-TCLP	KB
TCLP 2,4,5-Trichlorophenol (400)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP 2,4,5-TP (Silvex) (RL 1)	ND	mg/l	1430 10/27/92	0.01	EPA Method 8150-TCLP	KB
TCLP Cresol (Reg. Limit 1)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
TCLP MEK (Reg. Limit 200)	13	mg/l	0725 10/30/92	0.05	EPA Method 8240-TCLP	PM
TCLP Methoxychlor (RL 10)	ND	mg/l	1630 10/26/92	0.011	EPA Method 8080-TCLP	KB
TCLP Pyridine (Reg. Limit 5)	ND	mg/l	1607 10/30/92	0.029	EPA Method 8270-TCLP	WJP
Metals Digestion - TCLP 3010	Digested	a/s	2200 10/22/92		EPA Method 3010	KDC
Metals Digestion - 7470	Digested	a/s	0830 10/22/92			JHL
TCLP Silver (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Arsenic (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.2	EPA Method 6010	GDG
TCLP Barium (Reg. Limit 100.0)	ND	mg/l	1749 10/26/92	1.0	EPA Method 6010	GDG

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
TCLP Cadmium (Reg. Limit 1.0)	ND	mg/l	1749 10/26/92	.01	EPA Method 6010	GDG
TCLP Chromium (Reg. Limit 5.0)	.03	mg/l	1749 10/26/92	.02	EPA Method 6010	GDG
TCLP Mercury (Reg. Limit 0.2)	ND	mg/l	1130 10/28/92	.001	EPA Method 7470	LW
TCLP Lead (Reg. Limit 5.0)	ND	mg/l	1749 10/26/92	.1	EPA Method 6010	GDG
TCLP Selenium (Reg. Limit 1.0)	ND	mg/l	0926 10/27/92	.2	EPA Method 6010	RJC

Quality Assurance for the SET with Sample 222897

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
			TCLP Silver (Reg. Limit 5.0)						
	Blank	<.01	mg/l				1749	10/26/92	GDG
	Standard	.20	mg/l	.20		100	1749	10/26/92	GDG
	Standard	.99	mg/l	1.0		101	1749	10/26/92	GDG
	Standard	1.0	mg/l	1.0		100	1749	10/26/92	GDG
	Standard	2.1	mg/l	2.0		105	1749	10/26/92	GDG
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		1.0	98	1749	10/26/92	GDG
222699	Spike		mg/l		1.0	97	1749	10/26/92	GDG
222701	Spike		mg/l		1.0	97	1749	10/26/92	GDG
222703	Spike		mg/l		1.0	97	1749	10/26/92	GDG
222711	Spike		mg/l		1.0	99	1749	10/26/92	GDG
222768	Spike		mg/l		1.0	97	1749	10/26/92	GDG
222816	Spike		mg/l		1.0	95	1749	10/26/92	GDG
			TCLP Arsenic (Reg. Limit 5.0)						
	Blank	<.2	mg/l				1749	10/26/92	GDG
	Standard	1.0	mg/l	1.0		100	1749	10/26/92	GDG
	Standard	5.1	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	4.9	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	9.9	mg/l	10		101	1749	10/26/92	GDG
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		5.0	102	1749	10/26/92	GDG
222699	Spike		mg/l		5.0	99	1749	10/26/92	GDG
222701	Spike		mg/l		5.0	103	1749	10/26/92	GDG
222703	Spike		mg/l		5.0	101	1749	10/26/92	GDG
222711	Spike		mg/l		5.0	104	1749	10/26/92	GDG
222768	Spike		mg/l		5.0	101	1749	10/26/92	GDG
222816	Spike		mg/l		5.0	103	1749	10/26/92	GDG
			TCLP Barium (Reg. Limit 100.0)						
	Blank	<1.0	mg/l				1749	10/26/92	GDG
	Standard	1.0	mg/l	1.0		100	1749	10/26/92	GDG
	Standard	4.9	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	4.9	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	10	mg/l	10		100	1749	10/26/92	GDG

Continued

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		5.0	97	1749	10/26/92	GDG
222699	Spike		mg/l		5.0	93	1749	10/26/92	GDG
222701	Spike		mg/l		5.0	94	1749	10/26/92	GDG
222703	Spike		mg/l		5.0	91	1749	10/26/92	GDG
222711	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222768	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222816	Spike		mg/l		5.0	100	1749	10/26/92	GDG
			TCLP Cadmium (Reg. Limit 1.0)						
	Blank	<.01	mg/l				1749	10/26/92	GDG
	Standard	.50	mg/l	.50		100	1749	10/26/92	GDG
	Standard	.95	mg/l	1.0		105	1749	10/26/92	GDG
	Standard	2.4	mg/l	2.5		104	1749	10/26/92	GDG
	Standard	4.8	mg/l	5.0		104	1749	10/26/92	GDG
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		1.0	89	1749	10/26/92	GDG
222699	Spike		mg/l		1.0	91	1749	10/26/92	GDG
222701	Spike		mg/l		1.0	91	1749	10/26/92	GDG
222703	Spike		mg/l		1.0	90	1749	10/26/92	GDG
222711	Spike		mg/l		5.0	93	1749	10/26/92	GDG
222768	Spike		mg/l		1.0	96	1749	10/26/92	GDG
222816	Spike		mg/l		1.0	92	1749	10/26/92	GDG
			TCLP Chromium (Reg. Limit 5.0)						
	Blank	<.02	mg/l				1749	10/26/92	GDG
	Standard	1.0	mg/l	1.0		100	1749	10/26/92	GDG
	Standard	5.2	mg/l	5.0		104	1749	10/26/92	GDG
	Standard	5.0	mg/l	5.0		100	1749	10/26/92	GDG
	Standard	9.8	mg/l	10		102	1749	10/26/92	GDG
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		1.0	99	1749	10/26/92	GDG
222699	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222701	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222703	Spike		mg/l		5.0	97	1749	10/26/92	GDG
222711	Spike		mg/l		5.0	100	1749	10/26/92	GDG
222768	Spike		mg/l		5.0	101	1749	10/26/92	GDG
222816	Spike		mg/l		5.0	99	1749	10/26/92	GDG
			TCLP Mercury (Reg. Limit 0.2)						
	Blank	.01	mg/l				1130	10/28/92	LW
	Blank	.002	mg/l				1130	10/28/92	LW
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW
	Standard	.011	mg/l	.010		110	1130	10/28/92	LW
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW
	Standard	.011	mg/l	.010		110	1130	10/28/92	LW
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW

Continued

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Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Standard	.010	mg/l	.010		100	1130	10/28/92	LW
	Standard	.011	mg/l	.010		110	1130	10/28/92	LW
222416	Duplicate	ND	mg/l	ND		100	1130	10/28/92	LW
222768	Duplicate	ND	mg/l	.001		300	1130	10/28/92	LW
223604	Spike		mg/l		.010	81	1130	10/28/92	LW
223073	Spike		mg/l		.010	67	1130	10/28/92	LW
223182	Spike		mg/l		.010	100	1130	10/28/92	LW
221766	Spike		mg/l		.010	86	1130	10/28/92	LW
222101	Spike		mg/l		.010	91	1130	10/28/92	LW
222102	Spike		mg/l		.010	99	1130	10/28/92	LW
222162	Spike		mg/l		.010	109	1130	10/28/92	LW
222416	Spike		mg/l		.010	98	1130	10/28/92	LW
222897	Spike		mg/l		.010	90	1130	10/28/92	LW
222104	Spike		mg/l		.010	95	1130	10/28/92	LW
222107	Spike		mg/l		.010	85	1130	10/28/92	LW
222108	Spike		mg/l		.010	74	1130	10/28/92	LW
222113	Spike		mg/l		.010	60	1130	10/28/92	LW
222115	Spike		mg/l		.010	68	1130	10/28/92	LW
222116	Spike		mg/l		.010	51	1130	10/28/92	LW
222117	Spike		mg/l		.010	97	1130	10/28/92	LW
222768	Spike		mg/l		.010	96	1130	10/28/92	LW
222816	Spike		mg/l		.010	84	1130	10/28/92	LW
			TCLP Lead (Reg. Limit 5.0)						
	Blank	<.1	mg/l				1749	10/26/92	GDG
	Standard	.99	mg/l	1.0		101	1749	10/26/92	GDG
	Standard	5.1	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	4.9	mg/l	5.0		102	1749	10/26/92	GDG
	Standard	10	mg/l	10		100	1749	10/26/92	GDG
222697	Duplicate	ND	mg/l	ND		100	1749	10/26/92	GDG
222697	Spike		mg/l		1.0	96	1749	10/26/92	GDG
222699	Spike		mg/l		5.0	95	1749	10/26/92	GDG
222701	Spike		mg/l		5.0	95	1749	10/26/92	GDG
222703	Spike		mg/l		5.0	96	1749	10/26/92	GDG
222711	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222766	Spike		mg/l		5.0	96	1749	10/26/92	GDG
222768	Spike		mg/l		5.0	98	1749	10/26/92	GDG
222816	Spike		mg/l		5.0	98	1749	10/26/92	GDG
			TCLP Selenium (Reg. Limit 1.0)						
	Blank	<.2					0926	10/27/92	RJC
	Blank	<.1					0926	10/27/92	RJC
	Standard	.98		1.0		102	0926	10/27/92	RJC
	Standard	.99		1.0		101	0926	10/27/92	RJC
	Standard	4.9		5.0		102	0926	10/27/92	RJC
	Standard	4.3		5.0		115	0926	10/27/92	RJC
	Standard	.94		1.0		106	0926	10/27/92	RJC
222697	Duplicate	ND	mg/l	ND		100	0926	10/27/92	RJC

Continued

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Analytical Chemistry • Utility Operations

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
222697	Spike		mg/l		1.0	98	0926	10/27/92	RJC
222699	Spike		mg/l		1.0	105	0926	10/27/92	RJC
222701	Spike		mg/l		1.0	105	0926	10/27/92	RJC
222702	Spike		mg/l		1.0	100	0926	10/27/92	RJC
222703	Spike		mg/l		1.0	99	0926	10/27/92	RJC
222711	Spike		mg/l		1.0	100	0926	10/27/92	RJC
222768	Spike		mg/l		1.0	99	0926	10/27/92	RJC
222816	Spike		mg/l		1.0	95	0926	10/27/92	RJC
222897	Spike		mg/l		1.0	89	0926	10/27/92	RJC

Reported results for TCLP analysis are corrected upward to reflect matrix spike recoveries.

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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APPENDIX P

ANALYTICAL RESULTS FROM LABORATORY AND EQUIPMENT BLANKS

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2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: GC Lab Blank 1
Collected By: JPJ
Date & Time Taken: 09/29/92 1130
Other Data: AFSCAPS Job # 5735, Tinker AFB
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 222088 **Received:** 09/30/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	1719 10/27/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1719 10/27/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO

Continued

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Analytical Chemistry • Utility Operations

11/05/92 222088 Continued

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	1719 10/27/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1719 10/27/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1719 10/27/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: WTP-RB1
Collected By: JPJ
Date & Time Taken: 09/26/92 1150
Other Data: AFSCAPS Job #5735, Tinker AFB
Bottle Data: 1 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 221848 **Received:** 09/28/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	1644 10/27/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1644 10/27/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO

Continued

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PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	1644 10/27/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1644 10/27/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1644 10/27/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C. H. Whiteside

C.H. Whiteside, Ph.D., President

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Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: WTP-RB1
Collected By: JPJ
Date & Time Taken: 09/23/92 1650
Other Data: AFSCAPS Job #5735, Tinker AFB
Bottle Data: 2 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 221724 **Received:** 09/25/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Acrolein	ND	ug/l	1535 10/27/92	100	EPA Method 8240	GO
Acrylonitrile	ND	ug/l	1535 10/27/92	100	EPA Method 8240	GO
Benzene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Bromoform	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Bromomethane	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
Carbon Tetrachloride	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Chlorobenzene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Chloroethane	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
2-Chloroethylvinyl ether	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
Chloroform	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Chloromethane	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
Dibromochloromethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Bromodichloromethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,2-Dichloroethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,1-Dichloroethene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Dichlorodiflouromethane	ND	ug/l	1535 10/27/92	1.0	EPA Method 8240	GO
1,2-Dichloropropane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
cis-1,3-Dichloropropene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Ethyl benzene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Methylene Chloride	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,1,2,2-Tetrachloroethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Tetrachloroethene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Toluene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,1,1-Trichloroethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
1,1,2-Trichloroethane	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Trichloroethene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO
Trichlorofluoromethane	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
Vinyl Chloride	ND	ug/l	1535 10/27/92	10	EPA Method 8240	GO
trans-1,3-Dichloropropene	ND	ug/l	1535 10/27/92	5.0	EPA Method 8240	GO

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

ANA-LAB CORP.
THE COMPLETE SERVICE LAB

2600 DUDLEY ROAD — KILGORE, TEXAS 75662 — 903/984-0551 — FAX 903/984-5914

Analytical Chemistry • Utility Operations

11/05/92

Applied Research Associates
RR #1, Box 120-A
Waterman Road
South Royalton, VT 05068-
Attention: Jack Jemsek

Sample Identification: NTA-B05-B EB-Bailer
Collected By: JPJ
Date & Time Taken: 09/16/92 1520
Other Data: Tinker AFB
Bottle Data: 1 -- 40 ml Glass Vial (Zero Headspace) with a Teflon Lined Lid (04)
Lab Sample Number: 221087 **Received:** 09/18/92 **Client:** ARS1

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Xylenes	nd	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Acrolein	ND	ug/l	1254 09/25/92	100	EPA Method 8240	PM
Acrylonitrile	ND	ug/l	1254 09/25/92	100	EPA Method 8240	PM
Benzene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Bromoform	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Bromomethane	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
Carbon Tetrachloride	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Chlorobenzene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Chloroethane	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
2-Chloroethylvinyl ether	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
Chloroform	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Chloromethane	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
Dibromochloromethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Bromodichloromethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,1-Dichloroethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,2-Dichloroethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,1-Dichloroethene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM

Continued

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THE COMPLETE SERVICE LAB

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Analytical Chemistry • Utility Operations

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
trans-1,2-Dichloroethene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Dichlorodiflouromethane	ND	ug/l	1254 09/25/92	1.0	EPA Method 8240	PM
1,2-Dichloropropane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
cis-1,3-Dichloropropene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Ethyl benzene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Methylene Chloride	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,1,2,2-Tetrachloroethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Tetrachloroethene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Toluene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,1,1-Trichloroethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
1,1,2-Trichloroethane	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Trichloroethene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM
Trichlorofluoromethane	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
Vinyl Chloride	ND	ug/l	1254 09/25/92	10	EPA Method 8240	PM
trans-1,3-Dichloropropene	ND	ug/l	1254 09/25/92	5.0	EPA Method 8240	PM

I certify that the results were generated using the above specified methods.

C.H. Whiteside, Ph.D., President

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APPENDIX Q

SAMPLE CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY

CONTACT: Jack Jemsek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

RR #1, Box 120-A
Waterman Road
South Royalton, Vermont 05068
(802) 763-8348
FAX: (802) 763-8283

4300 San Mateo Blvd. NE
Suite A220
Albuquerque, New Mexico 87110
(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED: 8240	418.1	a HPLC	b 8270					FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	NTA-04-SS1	9/3/92	12:30	Soil	40 ml	NA	NA	✓								
	NTA-04-SS2	9/3/92	13:00	Soil	40 ml	↓	↓	✓								@ 15.3'
	NTA-04-SS3	9/3/92	14:30	Soil	40 ml			✓								
	NTA-04-SS1/SS2	9/3/92	11:30	Soil	1 qt			✓	✓	✓	✓					slow in
	NTA-04-SS1	9/4/92	12:30	Soil	1 qt	↓	↓	✓	✓	✓						
b Base/Neutral only																
a HPLC	for Naphthalene		1- ml	2- Methylnaphthalene												

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
METHOD OF SHIPMENT:			*REMARKS:*		

5735coc.frm

CHAIN OF CUSTODY

CONTACT: Jack Jensek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

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FAX: (505) 883-3673

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED 8240	418.1	HPLC	8240	T.(Mod)				FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-G11A-SS1	9/14/92	17:00	Soil	1qt			✓	✓	✓	✓	✓				Grab from 0.5' to 1.6'
24 HR	RUSH	8240	a	HPLC												
a BASE/NEUTRAL ONLY																
b HPLC for Naphthalene, 1 methyl & 2 - methyl Naphthalene																

RELINQUISHED BY: JACK JENSEK	DATE: 9/15/92	TIME: 8:27 P	RECEIVED BY: [signature]
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			*REMARKS:*

DATE: 9-16-92 TIME: 8:27

433

5735coc.frm

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: TINKER AFB

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

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FAX: (505) 883-3673

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED 8240	418.1	HPLC	420.1	8270				FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	NTA-B05-B	9/16	1520	water	40ml	—	—	✓								EB - Boiler
	NTA-B05	9/16	15:30	"	"	—	—	✓	✓							Duplicate Hot FD
	NTA-B08	9/16	17:00	"	"			✓	✓							Dup Hot FD
	NTA-B07	9/17	15:00	"	"			✓	✓							Dup
	NTA-B04	9/16	18:00	"	"			✓	✓							Dup Hot FD

RELINQUISHED BY: Jack Jemsek	DATE: 9/18/92	TIME: 8:50	RECEIVED BY: Richard Hallen
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-18-92 TIME: 9:00
DATE: TIME:
DATE: TIME:

5735subs.frm

ICCoude Sample to SMO# prioritize 8240, 418.1, HPLC

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # FIA12

LOCATION: TINKER AFB

SAMPLED BY: JPJ

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Please send results to office circled above.

435

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED 8240	418.1	HPLC *	420.1	8270				FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-11-SS3	9/15	12:47	SOIL	GOLDA	—	—	✓	✓	✓	✓					ⓐ 9' "HOT" JP4
	FPA-13-SS3	9/15	14:45	"	"	—	—	✓	✓	✓	✓					ⓐ 15'
	FPA-12-SS2	9/15	10:15	"	"			✓	✓	✓	✓					ⓐ 10'
	NTA-B10-SS1	9/17	17:10	Soil	1 pt			✓	✓	✓	✓					13-14'
	NTA-B02-SS1	9/17	16:15	"	"			✓	✓	✓	✓					12-14'
	NTA-B01-SS1	9/17	12:20	"	"			✓	✓	✓	✓					13-14'
	NTA-B06-SS1	9/17	9:20	"	"			✓	✓	✓	✓					17-17' HOT · Fuel Oil (FO)
	NTA-B07-SS1	9/17	11:00	"	"			✓	✓	✓	✓					13-16'
	NTA-B05-SS1	9/17	12:30	"	"			✓	✓	✓	✓	✓				13-14' HOT
	NTA-B08-SS1	9/17	17:00	"	"			✓	✓	✓	✓					13-15' Hot-FO

RELINQUISHED BY: Jack Jemsek	DATE: 9/18/92	TIME: 8:50	RECEIVED BY: Richard Hallen
RELINQUISHED BY: Richard Hallen	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-18-92 TIME: 9:00

* HPLC = NAPHTHALENE, 1-METHYL & 2-METHYL NAPHTHALENE
8270 = BASE/NEUTRALS, SPLIT WITH HPLC

CHAIN OF CUSTODY

CONTACT: JACK JEPSEN

JOB NAME: AFSCAPS, Tinker AFB

JOB # 5435 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPJ

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(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED: 8240	418.1	HCl	420.1	8270				FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	NTA-B11-SS1	9/18	11:30	Soil	1 qt	—	—	✓	✓	✓	✓					13-14'
	NTA-B09-SS2	9/18	10:45	"	"	—		✓	✓	✓	✓					13-15'
	FPA-03-SS2	9/21	12:00	"	1 PVC liner			✓	✓	No	✓	✓			b	10' Short hold [a,b]
	NTA-B01	9/18	11:00	Water	2 x 40 mL			✓	✓							
	NTA-B02	9/18	17:00	"	"	—	—	✓	✓							
	NTA-B14	9/18	12:00	"	"	—	—	✓	✓							
	NTA-B12	9/18	12:30	"	"	—	—	✓	✓							
	NTA B06	9/18	13:00	"	"	—	—	✓	✓							Sus/eached Fuel Oil [a,b]
	NTA-B09	9/18	17:20	"	"	—	—	✓	✓							

RELINQUISHED BY: Jack Jepsen	DATE: 9/21/92	TIME: 8:00	RECEIVED BY: Michael Sullivan DATE: 9-21-92 TIME: 8:10
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

436

5755ada.frm

a Naphthalene, 1-Methyl Naphthalene, 2 Methyl Naphthalene

b Priority 8270, 8240, 418.1, 420.1 - 11a.m. 3rd floor

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

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Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: 8240	418.1	1 HPLC	420.1	6 82?K				FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-B41-SS2	9/22/92	9:30	Soil	1qt	—	—	✓	✓	✓	✓					10-11'
	FPA-B41-SS1	9/22/92	9:30	Soil	1qt	—	—	✓	✓	✓	✓	✓				4-5' hot
	FPA-B32-SS3	9/22/92	16:00	Soil	1qt	—	—	✓	✓	✓	✓					10'
	FPA-B32-SS1	9/22/92	15:30	"	140 ml				✓							@1'
	FPA-B32-SS2	9/22/92	15:50	"	1 "				✓							@ 6'
	FPA-B32-SS4	9/22/92	16:20	"	1 "				✓							~~12~~ @14'
	FPA-B32-SS5	9/22/92	16:00	"	1 "				✓							~~@~~ 17-22'
	FPA-B32-SS6	9/22/92	16:30	"	1 "				✓							22-27'
	FPA-B32-SS4	9/22/92	17:20	"	1 "				✓							@ 30'

RELINQUISHED BY: Jack Jemsek	DATE: 9/23/92	TIME: 8:00	RECEIVED BY: Richard Stallings DATE: 9-23-92 TIME: 8:30
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

5735subs.frm

a Naphthalene, 1 Me Naphthalene, 2 Me Naphthalene

b base/neutral only

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: TINKER AFB, OK

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

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(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

CASE / NEUTRAL ONLY

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED *	T. Metals	426.1	8290					FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	WTP-B01-SS1	9/24/92	15:05	Soil	16t				✓	✓	✓					@161
	WTP-B02-SS1	"	15:30	Soil	16t				✓	✓	✓					@16
	WTP-B03-SS1		16:25	Soil	16t				✓	✓	✓					@K1
*	T. Metals =	Cd	Cr	Ba	Pb	Zn	As	Hg	Ni							

RELINQUISHED BY: Jack Jemsek	DATE: 9/25/92	TIME: 8:10	RECEIVED BY: Jeffrey A. Hallman
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			*REMARKS:*

DATE: 9-25-92 TIME: 8:15 | DATE: | TIME: | DATE: | TIME:

438

5735coc.frm

CHAIN OF CUSTODY

CONTACT: Jack Jemsek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPS

APPLIED RESEARCH ASSOCIATES, INC.

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Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: 8240	ANALYSIS REQUESTED: 418.1	ANALYSIS REQUESTED	ANALYSIS REQUESTED	ANALYSIS REQUESTED	ANALYSIS REQUESTED	ANALYSIS REQUESTED	ANALYSIS REQUESTED	FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-01	9/24/92	8:20	water	2 vials	–	–	✓	✓							
	~~FPA-B24~~	~~"~~	~~9:20~~	~~"~~	~~"~~	~~–~~	~~–~~									
	FPA-B31	"	9:40	"	"			✓	✓							"Hot" JP 4,5
	FPA-B32	"	9:20	"	"				✓							
	FPA-B33	"	9:10	"	"				✓							
	FPA-B41	"	10:00	"	"				✓							
	FPA-B45	"	8:50	"	"				✓							
	WTP-RC1	9/24	16:50	"	"			✓								

RELINQUISHED BY: Jack Jemsek	DATE: 9/25/92	TIME: 8:10	RECEIVED BY: Richard Hoffman
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			*REMARKS:*

DATE: 9-25-92 TIME: 5:15 | DATE: | TIME: | DATE: | TIME:

439

5735coc.frm

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5935 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPS

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FAX: (505) 883-3673

Please send results to office circled above.

BASE/NEUTRAL ONLY

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED 8240	418.1	HPLC	420.1	8270	TCLP			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-B41-SS1	9/23/92	11:15	soil	1 qt	-	-		✓	✓	✓					@ 1'
	"	"	"	"	1 vial	-	-	✓								@ 1'
	FPA-B31-SS1	"	12:20	"	1 qt	-	-		✓	✓	✓	✓				2.5-3.5'
	"	"	"	"	1 vial	-	-	✓								2.5-3.5'
	FPA-B31-SS2	"	12:50	"	1 vial				✓							6'
	FPA-B31-SS3	"	12:20	"	1 qt				✓	✓	✓	✓				8-9'
	"	"	"	"	1 vial			✓								8-9'
	FPA-B31-SS4	"	13:00	"	1 vial				✓							@ 11'
	FPA-B31-SS4A	"	13:14	"	1 qt				✓	✓	✓					@ 13'
	FPA-B31-SS4A	"	"	"	1 vial			✓								@ 13'

RELINQUISHED BY: Jack Jemsek	DATE: 9/25/92	TIME: 8:10	RECEIVED BY: Richard D Holloway	DATE: 9-25-92	TIME: 8:15
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
METHOD OF SHIPMENT:			*REMARKS:*		

HPLC = Naphthalene, 1 Me Naphthalene, 2 Me Naphthalene

440

CHAIN OF CUSTODY

CONTACT: Jack Jensek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPJ

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(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

BASE/NEUTRAL ONLY

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: BEAC	418.1	HPLC	420.1	8290	TCLP			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-B31-SS5	9/23/92	12:40	soil	1 vial	—	—		✓							@16'
	FPA-B31-SS6	"	13:20	"	"	—	—		✓							@19'
	FPA-B33-SS1	"	16:00	"	"				✓							@1'
	FPA-B33-SS2	"	16:10	"	"				✓							@3.5'
	FPA-B33-SS3	"	16:20	"	1 qt				✓	✓	✓	✓				7-8'
	~~FPA-B33-SS4~~	"	~~16:20~~		~~1 qt~~											~~9-10'~~
	FPA-B33-SS5	"	16:40	"	2 vials			✓	✓							@13'
	FPA-B33-SS6	"	16:45	"	1 vial				✓							19-22'
	FPA-B33-SS4	"	16:20	"	1 qt				✓				✓			

RELINQUISHED BY: Jack Jensek	DATE: 9/25/92	TIME: 8:10	RECEIVED BY: Richard Fallon
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-25-92 TIME: 8:15

5735subs.frm

HPLC = Naphthalene, 1 Me Naphthalene, 2 Me Naphthalene
TCLP = metals, volatiles, semi volatiles

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: TINKER AFB, OK

SAMPLED BY: JPJ

APPLIED RESEARCH ASSOCIATES, INC.

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(505) 883-3636
FAX: (505) 883-3673

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: 8240	ANALYSIS REQUESTED: TPH 418.1	FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FTA-B01-SS1	9/24/92	16:46	Soil	1 Vial			V		1-1.5'
	FTA-B01-SS2	"	17:00	"	"			V		3.25-9.0'
	FTA-B01-SS3	"	17:00	"	"			V		6-7'
	~~FTA-B01-SS4~~	~~"~~		"						
	FTA-B01-SS5	"	18:00	"	"			V		9.5-10.0'
	FTA-B01-W	"	18:00		2 Vial	no	no	V	V	HOT

RELINQUISHED BY: Jack Jemsek	DATE: 9/28/92	TIME: 8:40	RECEIVED BY: [illegible] DATE: 9-29-92 TIME: 9:45
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

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5735coc.frm

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPJ

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metals, Volatiles, semi-vols

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: 8240	T. Metal*	A20.1	8270**	TCLP				FIELD LOG BOOK REF NO. ____ PAGE(S) ____ REMARKS
	WTP-B01A-SS1	9/25/92	10:25	SOIL	1qt	-	-		✓	✓	✓					@ ~~16~~ 16'
	WTP-B05-SS1	"	11:22	"	"				✓	✓	✓					@ ~~14~~ 14'
	WTP-B06-SS1	"	11:40	"	"				✓	✓	✓					13-17'
	WTP-B07-SS1	"	13:00	"	"				✓	✓	✓					@ 16'
	WTP-B08-SS1	"	16:00	"	"				✓	✓	✓					@ 16'
	WTP-G1	"	16:24	"	"							✓				WTP-B05, B06, B07 composite 14-17'
* Total Metals =		Cd.	Cr	Ag	Pb	Zn	As	Hg	Ni							
** BASE/NEUTRAL ONLY																

RELINQUISHED BY: Jack Jemsek	DATE: 9-28-92	TIME: 8:40	RECEIVED BY: Richard Hallenan
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			*REMARKS:*

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5735coc.frm

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5435 PO # _____

LOCATION: TINKER AFB

SAMPLED BY: JPS

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED: 8240	8101	8201	8270	HAZC	TCLP			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	WTP-RB1	9/26/92	11:50	water	1 vial	-	-	✓								
	FTA-BH1-SS1	9/26/92	16:16	soil	1 qt	-	-		✓	✓		✓				1-1.5'
	FTA-BH1-SS2	"	17:00	"	"	-	-		✓	✓	✓	✓				3.25-4.0' Hit
	FTA-BH1-SS3	"	17:10	"	"	-	-		✓	✓		✓				6-7' Hit
	FTA-BH1-SS4	"	17:50	"	"	-	-		✓	✓			✓			2.25-3.0' Hit
	FTA-BH1-SS5	"	18:00	"	"	-	-		✓	✓		✓				9.5-10.0'

RELINQUISHED BY: Jack Jemsek	DATE: 9/28/92	TIME: 8:45	RECEIVED BY: Richard Hallman
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-29-92 TIME: 8:45

DATE: TIME:

DATE: TIME:

5435wdbs.frm

CHAIN OF CUSTODY

CONTACT: JACK JENSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPS

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED: 8240	T. Metals*	8270	[redacted]					FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	OSC-B01-SS1	9/25/92	17:50	soil	1 qt				✓	✓						@ 16'
	OSC-B07-SS1	"	18:00	"	"				✓	✓						@ 11'
	OSC-G01	9/26/92	12:00	"	"				✓	✓						0.1-0.5' OUTFALL
	WTP-B04-SS1	9/25/92	10:25	"	1 vial			✓								@ 16'
	WTP-B06-SS1	"	11:40	"	"			✓								@ 13-14'
	WTP-B08-SS1	"	16:00	"	"			✓								@ 16'
	WTP-B06	9/26/92	11:00	water	2 vials			✓								
	WTP-B04	"	10:30	"	2 vials			✓								
~~5010~~	~~Cond/Alkalinity~~															
+ T. Metals	= Cd	Cr	Ba	Pb Zn	As Hg	Ni										

RELINQUISHED BY: Jack Jensek	DATE: 9-28-92	TIME: 8:40	RECEIVED BY: Richard Hall Cmer
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-28-92 TIME: 8:40
DATE: TIME:
DATE: TIME:

5735subs.frm

CHAIN OF CUSTODY

CONTACT: JACK JENSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: TINKER AFB, OK

SAMPLED BY: JPJ

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BASE/NEUTRAL ONLY

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED: 8240	8270	A2C1	[a] HPLC	[b] T. Metals	[c] B2N			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	GC LAB - BLANK 1	9/29/92	11:30	water	2 vials			✓								
	FTA - B01 - SS1	9/28/92	12:45	soil	1 qt				✓	✓	✓					1-2'
	FTA " "	"	"	"	1 vial			✓								1-2'
	FTA - B01 - SS2	"	12:50	"	1 qt				✓	✓	✓					8-9'
	FTA " "		"	"	1 vial			✓								8-9'
	OFB - B01 - SS1	"	16:10	"	1 qt					✓		✓	✓			6-7'
	OFB - B01 - SS2	"	16:30	"	"					✓		✓	✓			9-10'
	OFB - B01 - SS3	"	16:40	"	"					✓		✓	✓			16-17'
	OFB " "	"	16:40	"	1 vial			✓								16-17'
	OFB - B01 - SS4	"	17:15	"	1 qt					✓		✓	✓			21-22'

RELINQUISHED BY: Jack Jensek	DATE: 9/30/92	TIME: 8:20	RECEIVED BY: Katherine Hopkins
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			REMARKS:

DATE: 9-30-92 TIME: 3:25

[a] HPLC Naphthalene, 1 Me Naphthalene, 2 Me Naphthalene

[b] T. Metals Cd, Cr, Ba, Pb, Zn, As, Hg, Ni

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5435 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPJ

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Base Neutral Only

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED: 8240	418.1	4240		T. Metals	8270			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	OFB-B02-SS2	9/28/92	18:00	Soil	1qt	—	—			✓		✓	✓			11-12'
	OFB-B02-SS4	"	18:30	"	1qt	—	—			✓		✓	✓			22-23'
	OFB " "	"	18:30	"	1 Vial	—	—	✓								22-23'

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
Jack Jemsek	9/30/92	8:20	Richard Hall Mann	9-30-92	8:25
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
METHOD OF SHIPMENT:			*REMARKS:*		

T. Metals: Cd, Cr, Ba, Pb, Zn, As, Hg, Ni

CHAIN OF CUSTODY

CONTACT: JACK JENSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPS

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED 8240	8015							FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	LF2-PZB	10/6		water	2 vials			✓								
	LF2-PZE	10/6		"	"			✓								
	LF2-PZA	"		"	"			✓								
	FPA-11-SS1	9/15		Soil	Tube				✓							@ 1.5'
	FPA-47-SS1	9/21		"	"				✓							@ 5'
	FPA-47-SS2	9/21		"	"				✓							@ 10'
	FPA-47-SS3	9/21		"	"				✓							@ 15'
	FPA-Ø4-SS1	9/22							✓							@ 5'
	FPA-Ø4-SS2	"							✓							@ 10'
	FPA-Ø4-SS3	"							✓							@ 15'

448

✓ ✓

RELINQUISHED BY: Jodi Jensek	DATE: 10/7/92	TIME: 15:23	RECEIVED BY: [signature] DATE: 7 Oct 92 TIME: 1525
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

5735coc.frm

CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Carswell AFB, TX

SAMPLED BY: WS

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(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	xylene + ANALYSIS REQUESTED 8240	418.1	H2c						FIELD LOG BOOK REF NO. ____ PAGE(S) ____ REMARKS
	SS1	10/5/92	15:58	soil	40ml			✓	✓							soil/gos mix
	BSS-05	10/4/92	12:00	soil	1 tula			✓	✓	✓						7-8'
	River	10/5/92	9:50	water	40 ml			✓								
	MW-2	10/5/92		"	"			✓								

RELINQUISHED BY: Jack Jemsek	DATE: 10/7/92	TIME: 15:23	RECEIVED BY: J Bigler
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
METHOD OF SHIPMENT:			*REMARKS:*

DATE: 7 Oct 92 TIME: 1523

HPLC - Naphthalene + 2 Me Naphthalene

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CHAIN OF CUSTODY

CONTACT: JACK JEMSEK

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JPJ

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Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED (9) 418.1	TCLP	FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	FPA-13-SS1	9/15/92		soil	1 tube			✓		@ 5'
	FPA-13-SS2	"		"	"			✓		@ 10'
	FPA-20-SS1	9/16/92		"	"			✓		@ 5'
	FPA-20-SS2	"		"	"			✓		@ 10'
	FPA-20-SS3	"		"	"			✓		@ 15'
	FPA-42-SS1	"		"	"			✓		@ 5'
	FPA-42-SS2	"		"	"			✓		@ 10'
	FPA-42-SS3	"		"	"			✓		@ 15'
	FRAC TANK	10/7/92		Water	3 gt.				✓	Decon Rinsate

RELINQUISHED BY: Jack Jemsek	DATE: 10/7/92	TIME: 15:23	RECEIVED BY: [signature] DATE: 7 Oct 92 TIME: 1525
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			REMARKS:

(a) TCLP = metals, semi.volatiles, volatiles

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450

CHAIN OF CUSTODY

CONTACT: Jack Jemsek

JOB NAME: AFSCAPS

JOB # 5935 PO # _____

LOCATION: Tinker AFB, OK

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SAMPLED BY: JPJ Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED								FIELD LOG BOOK REF NO. ____ PAGE(S) ____
									418.1							REMARKS
	FPA-05-SS1	9/22/92		Soil	1 tube				✓							@ 5'
	FPA-05-SS2	"		"	"				✓							@ 10'
	FPA-05-SS3	"		"	"				✓							@ 15'
	FPA-03-SS1	9/11/92		"	"				✓							@ 5'
	FPA-03-SS3	9/11/92		"	"				✓							@ 15'
	FPA-11-SS2	9/15/92		"	"				✓							@ 5'
	FPA-11-SS4	"		"	"				✓							@ 15'
	FPA-12-SS1	"		"	"				✓							@ 5'
	FPA-12-SS3	"		"	"				✓							@ 15'

RELINQUISHED BY: Jack Jemsek	DATE: 10/7/92	TIME: 15:23	RECEIVED BY: [signature] DATE: 7 Oct 92 TIME: 1525
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

5935coc.frm

CHAIN OF CUSTODY

CONTACT: JAck Jemsek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB

SAMPLED BY: JPJ

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED							FIELD LOG BOOK REF NO. ___ PAGE(S) ___
									418.1	TCLP					REMARKS
	DSW-1	10/6/92	17:18	Soil	1qt	—	—		✓	✓					FPA Comp Dr. 1,3,8
	DSW-2	"	17:25	"	"				✓	✓					WTP/OSC Comp
															Dr. 1,5,6
	DSW-3	" "	17:25	"	"				✓	✓					WTP/OSC Drum 5
	DSW-4	" "	17:30	"	"				✓	✓					FTA Comp, Dr 1,2
	DSW-5	" "	17:35	"	"				✓	✓					OFB Comp Dr 1,2
a	metals, volatiles, and		semi	volatiles											

RELINQUISHED BY: Jack Jemsek	DATE: 10/7/92	TIME: 8:25	RECEIVED BY: [illegible] DATE: [illegible] TIME: [illegible]
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

452

5735coc.frm

CHAIN OF CUSTODY

CONTACT: Jack Jensek

JOB NAME: AFSCAPS

JOB # 5735 PO # 54

LOCATION: Tinker AFB, OK

SAMPLED BY: JPJ

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LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESER-VATIVE	ANALYSIS REQUESTED (a) (b) 8240	418.1	420.1	T.Metal	8270	TCLP			FIELD LOG BOOK REF NO. ___ PAGE(S) ___ REMARKS
	OFB-03-SS1	10/3/92		Soil	1qt			✓	✓	✓	✓	✓				5-6.7'
	OFB-04-SS2	10/3/92		"	"			✓	✓	✓	✓	✓				5.6-7.4'
	OFB-04-SS1	"		"	"			✓	✓	✓	✓	✓				4.0-5.6'
	LF2-10-SS2	14/2/92		"	"			✓	✓	✓	✓	✓				6-7.6'
	LF2-07-SS1/SS2	"		"	"			✓	✓	✓	✓	✓				8-11.6' Comp.
	LF2-06-SS1/SS2	"		"	"			✓	✓	✓	✓	✓				7.5-11.1 Comp.
	LF2-05-SS1/SS2	"		"	"			✓	✓	✓	✓	✓				5-8.6' Comp

RELINQUISHED BY: Jack Jensek	DATE: 10/7/92	TIME: 8:24	RECEIVED BY: Kelly Skillman	DATE: 10-7-92	TIME: 8:25
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
METHOD OF SHIPMENT:			*REMARKS:*		

5735odm.frm

(a) Ca, Cr, Ba, Pb, ZN, As, Hg, Ni

(b) ~~Acid~~/Base/Neutral only

CHAIN OF CUSTODY

CONTACT: Jack Jemsek

JOB NAME: AFSCAPS

JOB # 5735 PO # _____

LOCATION: Tinker AFB, OK

SAMPLED BY: JJ

APPLIED RESEARCH ASSOCIATES, INC.

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FAX: (802) 763-8283

4300 San Mateo Blvd. NE
Suite A220
Albuquerque, New Mexico 87110
(505) 883-3636
FAX: (505) 883-3673

Please send results to office circled above.

LAB NUMBER	FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL/TYPE	FIELD FILTERED (Y/N)	PRESERVATIVE	ANALYSIS REQUESTED (a) (b) (c) 8240	Alk.	8021	TPH Mod.	8270	TCLP			FIELD LOG BOOK REF NO. ____ PAGE(S) ____ REMARKS
	LFA-05-SS1	10/1		soil	1 qt.	—	—	✓	✓	✓	✓	✓				3'-4.6'
	LFA-05-SS2	10/2		solid waste	1 qt								✓			6-7.6'
	LFA-06-SS1/SS3/SS5	10/2		"	"			✓	✓	✓	✓	✓				2-9.6' comp
	LFA-06-SS4	10/2		soil	"			✓			✓					13-14.6'
	LFA-14-SS1	"		"	"			✓	✓	✓	✓	✓				8-9.6'
	LFA-06-W1	10/1		water	1 vial			✓								@ 4'
	LFA-06-W2	10/1		"	2 vials			✓								@ 15.5
	LFA-05-W1	10/1		"	"			✓								@ 9'
	LF2-PZC	10/6		"	"			✓								
	LF2-PZD	10/6		"	"			✓								

RELINQUISHED BY: Jack Jemsek	DATE: 10/7/92	TIME: 15:23	RECEIVED BY: [signature] DATE: 7 Oct 92 TIME: 1535
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: [signature] DATE: TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: DATE: TIME:
METHOD OF SHIPMENT:			*REMARKS:*

(a) Cd, Cr, Ba, Pb, Zn, As, Hg, Ni
(b) BASE/NEUTRAL ONLY
(c) metals, volatiles, semivolatiles